

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12P 17/18		A1	(11) International Publication Number: WO 97/39137 (43) International Publication Date: 23 October 1997 (23.10.97)
(21) International Application Number: PCT/GB97/01007		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 11 April 1997 (11.04.97)		Published <i>With international search report.</i>	
(30) Priority Data: P-9600120 12 April 1996 (12.04.96)		SI	
(71) Applicants (for all designated States except US): LEK PHARMACEUTICAL & CHEMICAL CO. DD [SI/SI]; 1526 Ljubljana, Verovskova 57 (SI). BROWNE, Robin, Forsythe [GB/GB]; Urquhart-Dykes & Lord, Tower House, Merrion Way, Leeds LS2 8PA (GB).			
(72) Inventors; and			
(75) Inventors/Applicants (for US only): KRANJC, Sasa [SI/SI]; Trzaska 51a, 1000 Ljubljana (SI). RACMAN Artur [SI/SI]; Dalmatinova 21, 9000 Crnolovei-Murska Sobota (SI).			
(74) Agent: BROWNE, Robin, Forsythe; Urquhart-Dykes & Lord, Tower House, Merrion Way, Leeds LS2 8PA (GB).			

(54) Title: PROCESS FOR THE PREPARATION OF CLAVULANIC ACID

(57) Abstract

A process for preparation of clavulanic acid comprising fermentation of a clavulanic acid producing species of *Streptomyces* in a fermentation broth containing assimilable sources of carbon and nitrogen, wherein the concentration of phosphorus in the fermentation broth is less than 0.15 % w/v.